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Attorney Docket Number: FSP0030
Client Reference Number: AWS 857.US
Title: TERMINAL DEVICE IP ADDRESS AUTHENTICATION
Application Number: 10/662,656

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Claims

1. (Cancelled) A device comprising:
a processor; and
logic which, when applied to the processor in response to receiving a service request, results in
locating a subscriber identifier corresponding to an IP address;
locating subscriber information corresponding to the identifier; and
determining whether a subscriber has access to a requested service.
2. (Currently Amended) ~~The device of claim 1 further~~ A device comprising:
logic which, when applied to the processor, results in ~~the acts of claim 1~~
locating a subscriber identifier corresponding to an IP address;
locating subscriber information corresponding to the identifier; and
determining whether a subscriber has access to a requested service;
in response to receiving a code from a terminal device, the code indicating that a unique username
and password will not be provided by the terminal device.
3. (Original) The device of claim 2 further comprising:
logic which, when applied to the processor, results in communication of the code and IP address to
a service provider.
4. (Currently Amended) The device of claim ~~1~~ 2 further comprising:
logic which, when applied to the processor, results in forming an account name from the identifier.
5. (Currently Amended) The device of claim ~~1~~ 2 wherein the identifier is an MSISDN.
6. (Original) The device of claim 5 further comprising:

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logic which, when applied to the processor, results in querying a RADIUS server to locate the subscriber identifier corresponding to the IP address.

7. (Original) A terminal device comprising:

a processor; and

logic which, when applied to the processor, results in

communicating to a network, in lieu of a user name and password, a code to cause the network to authenticate and authorize access to a service, the authentication and authorization based upon an IP address assigned to the terminal device by the network and upon a unique identifier provided by the terminal device to the network during an earlier attach process.

8. (Original) The terminal device of claim 7 further comprising:

client logic associated with a service provider, which, when applied to the processor to access the service provider, results in communicating the code and IP address to the network in lieu of communicating a user name and password.

9. (Currently Amended) A method comprising:

receiving a code from a terminal device ~~in lieu of~~ that indicates that a user name and password will not be provided by the terminal device;

locating a subscriber identifier corresponding to an IP address of the terminal device;

locating subscriber information corresponding to the identifier; and

determining whether a subscriber has access to a requested service.

10. (Original) The method of claim 9 further comprising:

communicating the code and IP address to at least one service provider to obtain authorization for the services of the at least one service provider.

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11. (Original) The method of claim 9 further comprising:

forming from the identifier an account name for the subscriber.

12. (Original) The method of claim 9 wherein the identifier is an MSISDN.

13. (Original) The method of claim 12 further comprising:

querying a RADIUS server to locate the MSISDN corresponding to the IP address.